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     in uncontrolled environments using stereo and biometric information
     Philip Kelly, Noel E. O'Connor, Alan F. Smeaton
     October 2006 **Proceedings of the 4th ACM international workshop on Video surveillance and sensor networks VSSN '06**
     Publisher: ACM Press
     Full text available: 🗎 pdf(803.43 KB)   Additional Information: full citation, abstract, references, index terms

     A method for pedestrian detection from challenging real world outdoor scenes is presented in this paper. This technique is able to extract multiple pedestrians, of varying orientations and appearances, from a scene even when faced with large and multiple occlusions. The technique is also robust to changing background lighting conditions and effects, such as shadows. The technique applies an enhanced method from which reliable disparity information can be obtained even from untextured homogeneous ...

     Keywords: bio-metric data, disparity, homography, pedestrian detection, stereo

2   Computational Approaches to Image Understanding   ▭
     Michael Brady
     March 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1
     Publisher: ACM Press
     Full text available: 🗎 pdf(10.04 MB)   Additional Information: full citation, references, citings, index terms

3   Resolving occlusion in augmented reality   ▭
     Matthias M. Wloka, Brian G. Anderson
     April 1995 **Proceedings of the 1995 symposium on Interactive 3D graphics SI3D '95**
     Publisher: ACM Press
     Full text available: 🗎 pdf(2.03 MB)   Additional Information: full citation, abstract, references, citings, index terms

     Current state-of-the-art augmented reality systems simply overlay computer-generated visuals on the real-world imagery, for example via video or optical see-through displays. However, overlays are not effective when displaying data in three dimensions, since occlusion between the real and computer-generated objects is not addressed.We present a video see-through augmented reality system capable of resolving occlusion between real and computer-generated objects. The heart of our s ...

     Keywords: approximation, augmented reality, dynamic environments, interaction, occlusion, real-time, stereo matching

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cameras are not used to calculate a dense **disparity map**, ... which in our case is the
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